



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/590,249

08/17/2006

Onno Eerenberg

NL04 0153 US1

6019

94518 7590 09/28/2010

DLA PIPER LLP (US)
2000 UNIVERSITY AVENUE
EAST PALO ALTO, CA 94303

EXAMINER

FINDLEY, CHRISTOPHER G

ART UNIT

PAPER NUMBER

2621

MAIL DATE

DELIVERY MODE

09/28/2010

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/590,249	Applicant(s) EERENBERG ET AL.	
	Examiner CHRISTOPHER FINDLEY	Art Unit 2621	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. ____. |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>8/17/2006</u> . | 6) <input type="checkbox"/> Other: ____. |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-10 are rejected under 35 U.S.C. 102(e) as being anticipated by Kim et al. (US 7224730 B2, hereinafter referred to as “Kim”).

Re **claim 1**, Kim discloses a method of decoding video data in a video decoder to regenerate a corresponding sequence of images, characterized in that the method includes the steps of: (a) arranging for the decoder to include processing means coupled to an associated main data memory (and a data cache memory (Kim: column 7, lines 9-21) (b) receiving the video data including anchor picture data in compressed form at the decoder and storing the data in the main memory (Kim: Fig. 15, step 1504; column 19, lines 23-26)(c) processing the compressed video data in the processing means to generate corresponding macroblock data including motion vectors describing motional differences between the images in the sequence (Kim: column 19, lines 35-37); and (d) applying motion compensation in the processing means to generate from the macroblock data and one or more anchor pictures the corresponding sequence of decoded images (Kim: column 19, lines 47-51); the method being arranged to apply the

Art Unit: 2621

motion compensation such that the motion vectors derived from the macroblocks used for reconstructing the sequence of images are analyzed and macroblocks accordingly sorted so as to provide for more efficient data transfer between the main memory and the processing means (Kim: column 8, lines 15-16 and 50, the frames are divided into video object planes [VOPs] which consist of macroblocks grouped as objects).

Re **claim 2**, Kim discloses that groups of macroblocks transferred between the processing means and the memory correspond to spatially neighboring macroblocks in one or more of the images (Kim: column 8, lines 15-16 and 50).

Re **claim 3**, Kim discloses that the sequence of images includes at least one initial reference image from which subsequent images are generated by way of applying motion compensation using the motion vectors (Kim: column 8, lines 36-49).

Re **claim 4**, Kim discloses that one or more of the images are represented in one or more corresponding video object planes in the memory, said one or more planes including data relating to at least one of coding contour information, motion information and textural information (Kim: column 19, lines 5-10).

Re **claim 5**, Kim discloses that the video object planes are arranged to include one or more video objects which are mapped by said motion compensation in the processing means from one or more earlier images to one or more later images in the sequence (Kim: column 8, lines 36-49).

Re **claim 6**, Kim discloses that the method in step (a) is arranged to receive video data read from a data carrier, preferably an optically readable and/or writable data carrier, and/or a data communication network (Kim: column 7, lines 9-21).

Re **claim 7**, Kim discloses said method being arranged to be compatible with one or more block-based video compression schemes, for example MPEG standards (Kim: column 7, line 64-column 8, line 3).

Claim 8 recites the corresponding decoder apparatus for implementing the method of claim 1, and therefore claim 8 has been analyzed and rejected with respect to claim 1 above.

Claim 9 has been analyzed and rejected with respect to claim 3 above.

Claim 10 has been analyzed and rejected with respect to claim 4 above.

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

- a. Moving Image Estimating System; Sekiguchi et al. (US 20020114392 A1)
- b. Motion picture encoding system and motion picture decoding system; Sekiguchi et al. (US 6108449 A)
- c. Method for encoding and transcoding multiple video objects with variable temporal resolution; Vetro et al. (US 6650705 B1)

Art Unit: 2621

- d. Efficient motion estimation for an arbitrarily-shaped object; Panusopone et al. (US 6483874 B1)

Contact

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHRISTOPHER FINDLEY whose telephone number is (571)270-1199. The examiner can normally be reached on Monday-Friday (8:30 AM-5:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha D. Banks-Harold can be reached on 571-272-7905. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Marsha D. Banks-Harold/

Application/Control Number: 10/590,249

Page 6

Art Unit: 2621

Supervisory Patent Examiner, Art Unit 2621

/Christopher Findley/